

15 April 1993

QUALITY ASSURANCE

(C-141)

**1. Objective.** As prescribed in AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement to accomplish the tasks described in the work center description for varying levels of workload volume.

**2. Authority.** Air National Guard (ANG) Regulation 66-14 contains ANG policy and procedural guidance for the Quality Assurance work center. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, 16 May 88. This ANGMS was developed using functional review procedures.

**3. Applicability.** This standard applies to ANG C-141 Air Mobility Command gained flying units. This standard applies only to peacetime operations .

**4. Standard Data:**

**a. Classification.** Type III.

**b. Approval Date.** 4 Jan 93.

**c. Man-Hour Data Source.** Operational Audit (historical record and technical estimate techniques).

**d. Standard Man-Hour Equation.**  $Y = 653.3 + 0.2583X_1 + 15.56X_2$ .

**e. Workload Factor:**

**(1) Title:**

**(a)  $X_1$ .** A Programmed Flying Hour.

**(b)  $X_2$ .** A C-141 Aircraft Authorized.

**(2) Definition:**

**(a)  $X_1$ .** An Air National Guard Readiness Center (ANGRC/DO) developed flying hour required to maintain crew efficiency in accordance with AFR 60-1 and ANGR 60-1 for a specific unit equipped aircraft.

**(b)  $X_2$ .** The total C-141 aircraft authorized.

**(3) Source of Count:**

**(a)  $X_1$ .** USAF Program Document (PD), Volume II, maintained by NGB/FM.

**(b)  $X_2$ .** USAF Program Document (PD), Volume II, maintained by NGB/FM.

**5. Application Instructions:**

**a.** The valid man-hour range for this ANGMS is 649.52 through 1082.53. Should the extrapolation limits be exceeded, see AFR 26-1, Volume 3, paragraph 1-20 for guidance.

**b.** The AF Form 1113, Standard Manpower Table, is an aggregate of total manpower by specialty title and Air Force Specialty Code (AFSC). The applicable instructions are as follows:

**(1)** Determine the values for the two workload factors (WLF) identified in paragraph 4e.

**(2)** Substitute the appropriate WLF value into the man-hour equation for  $X_1$  and  $X_2$ .

**(3)** Divide the total man-hours by the current civilian man-hour availability factor to determine total requirements.

**(4)** Find the column in which the total number of authorizations fall; read up to determine total manpower by AFSC.

**c.** Fractional manpower requirements resulting from application of this standard will not be aggregated.

**6. Statement of Conditions.** This work center's normal hours of operation are 8 hours a day, 5 days a week. There are no other standard of living constraints which affect the daily operation of this work center.

**PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE**

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**2 Attachments**  
**1. Work Center Description**  
**2. Standard Manpower Table**

**WORK CENTER DESCRIPTION****Quality Assurance****(C-141)****DIRECT:****1. INSPECTION PROGRAM:**

**1.1. PERFORMS QUALITY VERIFICATION INSPECTION (QVI) AND SUPPORT EQUIPMENT TECHNICAL (SET) INSPECTION.** Performs QVI/SET to verify satisfactory equipment condition following maintenance performed during fix or inspection action and prepares inspection form.

**1.1.1. PERFORMS POST/PREFLIGHT INSPECTION.**

**1.1.2. PERFORMS MOCK-UP INSPECTION.**

**1.1.3. PERFORMS SHOP EQUIPMENT INSPECTION.**

**1.1.4. PERFORMS LUBRICATION INSPECTION AFTER WASH.**

**1.1.5. PERFORMS HOME STATION CHECK INSPECTION.**

**1.1.6. PERFORMS MISCELLANEOUS INSPECTION.**

**1.1.7. PERFORMS ENGINE INSTALLATION INSPECTION.**

**1.1.8. PERFORMS POWERED AEROSPACE GROUND EQUIPMENT (AGE) INSPECTION.**

**1.1.9. PERFORMS NONPOWERED AGE INSPECTION.**

**1.1.10. PERFORMS ISOCHRONAL INSPECTION.**

**1.1.11. PERFORMS ENGINE INSPECTION.**

**1.1.12. PERFORMS TEST CELL INSPECTION.**

**1.2. PERFORMS FUNCTIONAL CHECK FLIGHT REVIEW.** Reviews documentation, briefs aircrew, debriefs aircrew, reviews required maintenance, determines airworthiness of aircraft, and releases aircraft to maintenance.

**1.3. INSPECTS TECHNICAL PUBLICATION.** Inspects workcard, checklist, code manual, local publication, and maintenance operating instruction.

**1.4. MAINTAINS CHECKLIST.** Develops and maintains local checklist.

**1.5. PERFORMS SPECIAL INSPECTION.** Performs special recurring inspection to determine equipment condition or procedural compliance as directed by higher headquarters, air logistics center, or Deputy Commander for Maintenance.

**1.5.1. PERFORMS INSPECTION ON COMPOSITE TOOL KIT.**

**1.5.2. PERFORMS HOUSEKEEPING INSPECTION.**

**1.5.3. PERFORMS FOREIGN OBJECT DAMAGE (FOD) INSPECTION.**

**1.5.4. PERFORMS, INITIATES, AND VERIFIES ONE-TIME DIRECTED INSPECTION.**

**1.5.5. PERFORMS PRECISION MEASUREMENT EQUIPMENT CALIBRATION INSPECTION.**

**1.5.6. PERFORMS TECHNICAL ORDER (TO) SUBACCOUNT INSPECTION.**

**1.5.7. PERFORMS DOCUMENTATION INSPECTION.**

**1.5.8. PERFORMS AIRCRAFT WASH SPOT CHECK.**

**1.5.9. PERFORMS AIRCRAFT CLEANLINESS SPOT CHECK.**

**1.6. PERFORMS PERSONNEL EVALUATION.** Performs evaluation of technical competence and completes documentation of evaluation.

**1.7. ACCOMPLISHES SPECIAL PROGRAM.** Accomplishes special program to ensure and enhance the quality within the maintenance activity.

**1.7.1. ACCOMPLISHES SAFETY PROGRAM.**

**1.7.2. ACCOMPLISHES FOD PROGRAM.**

**1.7.3. ACCOMPLISHES DROPPED OBJECT PROGRAM.**

**1.7.4. ACCOMPLISHES THE SELF-INSPECTION/CROSS-FEED/CROSS-TELL PROGRAM.**

**1.7.5. PERFORMS IMPOUNDMENT PROGRAM.**

**1.7.6. INVESTIGATES/INITIATES REFERRAL FROM MAINTENANCE MANAGEMENT.**

**1.7.7. MONITORS AND IMPLEMENTS THE LOGISTICS EXCELLENCE PROGRAM.**

**1.7.8. INVESTIGATES ABORT/INCIDENT.**

**1.7.9. MANAGES WEIGHT AND BALANCE PROGRAM.**

**1.7.10. REVIEWS TIME COMPLIANCE TECHNICAL ORDER (TCTO) PROGRAM:**

**1.7.10.1. DETERMINES APPLICABILITY.**

**1.7.10.2. DISTRIBUTES TCTO.**

**1.7.10.3. REVIEWS TECHNICAL, MANAGERIAL, AND DOCUMENTATION ASPECT OF THE PROGRAM AND REPORTS DEFICIENCY.**

**1.7.11. MANAGES AIRCRAFT ACCEPTANCE PROGRAM.**

**1.7.12. PERFORMS AS SUGGESTION PROGRAM FOCAL POINT.**

**1.8. ADMINISTERS PRODUCT IMPROVEMENT PROGRAM.** Administers Product Improvement Program to ensure the quality of material and publication.

**1.8.1. PERFORMS MATERIAL DEFICIENCY PROGRAM.**

**1.8.2. PREPARES AFTO FORM 22, TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT REPORT.**

**1.8.3. PREPARES PRODUCT IMPROVEMENT SYSTEM REPORT.**

**1.9. PERFORMS MANAGEMENT INSPECTION.** Performs Management Inspection to ensure compliance with published directive and conducts follow-up for corrective action.

**1.9.1. PERFORMS INSPECTION.**

**1.9.2. PREPARES INSPECTION REPORT.**

**1.9.3. PERFORMS FOLLOW-UP INSPECTION.**

**1.10. MANAGES TECHNICAL ORDER (T.O.) DISTRIBUTION SYSTEM.** Manages T.O. distribution system to ensure currency of technical data within the maintenance complex.

**1.10.1. ESTABLISHES REQUIREMENT AND MAINTAINS CENTRAL T.O. FILE.**

**1.10.2. REQUISITIONS T.O.**

**1.10.3. DISTRIBUTES T.O.**

**2. DEPOT/CONTRACT FIELD TEAM.** Performs as focal point for depot or contract field team to ensure the quality of depot and contract maintenance.

**2.1. PERFORMS AS QUALITY ASSURANCE REPRESENTATIVE.**

**2.2. REQUESTS DEPOT ASSISTANCE.**

**3. QUALITY ASSURANCE PROGRAM (QAP):**

**3.1. PERFORMS QAP.** Compiles and analyzes QAP data and prepares Quality Assurance Summary.

**3.2. PERFORMS QAP SEMIANNUAL REVIEW.** Conducts a review of the QAP data semiannually.

**4. UNIT TRAINING ASSEMBLY (UTA) AND MOBILITY REQUIREMENT.** Performs planning/scheduling task associated with preparation for UTA weekend and mobility requirement.

**INDIRECT:** Indirect work involves tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

